> Advanced Cardiac Rehabilitation

	MCQ Questions: -				
	1) Coronary arteries filling during: -				
•	Systole ■ Diastole ✓	•	Ventricular contraction	•	Ventricular ejection
	2) One of the goals of cardiac rehabilitation: -				
•	Increase morbidity & disability	•	Increase activity related symp	ptoms	;
•	Increase risk factors	•	Improve functional capacity		
	3) In normal sinus rhythm there is: -				
•	Irregular R-R interval	•	PR interval (3-5) boxes ✓		
•	2 P wave for every QRS	•	PR interval more than 5 boxe	s	
	4) On ECG measures the time from start of atria dep	oola	rization to start of ventric	ular	depolarization: -
•	P wave • QRS complex	•	T wave	•	PR interval √
	5) From medical chart review we can found: -				
•	Smoking habits • Self-care evaluation		Blood lab reports √	•	Activity of daily living
	6) Extra heart sound in normal subjects up to ages of	of 20			
•	S1 • S2		S3 √		S4
•	7) The best method for measuring irregular heart ra	to ir		·	5 4
		•	Role of 1500		Role of 300
•		•	KOIE OI 1500	•	Role of 500
	8) Rules during 6 minutes' walk testing include: -				
•	Walk with the patient	•	Use only standardized phrase	es 🗸	
•	Assist the patients	•	Talk to anyone during walk		
	9) AV bundle of His is: -				
•	Terminal branches	•	Located by the right atrium	h t	
•	Cross the A-V ring ✓	•	Secondary pacemaker of the	neart	
	10) Systolic blood pressure can be produced during:	•			
•	Ventricular relaxation • Ventricular systole ✓	•	Atrial systole	•	Early diastole
	11) Patients indicated in cardiac rehabilitation progra	am a			
•	Moderate aortic stenosis	•	Chronic heart failure ✓		
•	Uncontrolled diabetes mellitus	•	Acute pericarditis		
	12) Indication for cardio pulmonary exercise testing of	of ca	•		
•	3rd degree heart block	•	Hypertrophic cardiomyopath	_	
•	Moderate aortic stenosis		Exercise/functional capacity	✓	
	13) General recommendations for resistance training		•		
•	40 to 50 percent of one repetition maximum for upper body	•	60 to 70 percent of one repet		•
•	40 to 50 percent of one repetition maximum for lower body ✓	•	60 to 70 percent of one repet	ition	maximum for upper body
	14) Sinoatrial node located by: -				
•	Right atrium near SVC ✓	•	Right atrium near IVC		
•	Left atrium	•	Lower part of inter-atrial sep	tum	
	15) Patients should not participate in a cardiac rehab				
•	Coronary artery disease • Heart valve surgery • VAD		· · · · · · · · · · · · · · · · · · ·	ntrolle	ed dysrhythmias ✓
	16) One of the main cardiac rehabilitation staff mem	bers			
•	Neurologist • Pharmacist	•	Cardiac surgeon	•	Cardiologist ✓
	17) During atrial systole: -				
•	Semilunar valves are opened	•	Atrio/ventricular valves are o	pene	d ✓
•	Pump blood to rest of the body	•	Ventricles fully contracted		
	18) Contra- Indication for cardio pulmonary exercise	test	ing: -		
•	Unexplained dyspnea	•	Unstable angina √		
•	Pre-operative evaluation	•	Exercise induced asthma		
	19) The risk of sudden stop of vigorous exercises is: -				
•	Venous pooling in lower limbs ✓	•	Increase blood flow to brain		
•	Increase venous return	•	Hypertension		

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	20) In phase II (recovery phase) a low-level exercise	test	is performed to a level of	of: -	
•	8 MET level ■ 5 MET level ✓	•	80% Maximum HR	•	50% Maximum HR
	21) During ventricular ejection of the heart there is:	_			
•	Start of ventricles contraction	•	Filling of ventricles		
•	Ventricles fully contracted ✓	•	Ventricles are relaxed		
	22) S2 heart sound represented by: -				
•	Closure of A/V valves	•	Closure of semilunar valves	s √	
•	Closure of mitral valve	•	Summation gallop		
	23) Warm – up exercises should include the following	ng: -			
•	Joint mobility exercises √	•	Resisted exercises		
•	Interval training exercises	•	Anaerobic exercises		
	24) In early diastole: -				
•	Ventricles fully contracted	•	Semilunar valves are open	ed	
•	Ventricles are filling ✓	•	Pump blood to rest of the b	oody	
	25) As manometer of central venous pressure: -				
•	Internal jugular vein ✓ • External jugular vein	•	Carotid artery	•	Brachial artery
	26) Mitral valve: -				
•	Open between right atrium to Rt ventricle	•	Composed of three compo	nents	
•	Semilunar valve	•	Composed of two leaflets		
	27) Training heart rate (THR) in moderate intensity of	of ae			
•	55-65% of heart rate reserve + rest HR	•	75-85% of heart rate reserv		t HR
•	65-75% of heart rate reserve + rest HR ✓	•	85-95% of heart rate reserv	e + res	t HR
	28) Moderate exercises by using maximum oxygen o	consi	umption (Vo2 max) equa	al: -	
•	40%- 60% of Vo2 max √ • 30%- 40% of Vo2 max	•	60%- 80% of Vo2 max	•	70%- 90% of Vo2 max
	29) After load represents: -				
•	Diastolic pressure Systolic pressure ✓	•	Peripheral resistance	•	End diastolic volume
	30) 6-minutes' walk test is: -				
	Lab test √ • Maximal testing	•	Supra maximal testing	•	Sub maximal testing
==				====	
1	True or Folco Questions:				
	1) Patients with resting St segment depression mo	re th		cipate	in cardiac rehabilitation
•	True		False √		
	2) In 1st degree AV block PR interval, more than 0.	20 s			
•	True √		• False		
	3) Reason for immediate stop of 6-minute walk tes	t is l	eg cramps		
•	True √		• False		
	4) End systolic volume is also re erred to as preload	t			
•	True		False √		
	5) Indication of CPET is unexplained shortness of b	reath	ning		
•	True √		• False		
	6) "Warm up" period before the six minutes' walk	test:	should be performed		
•	True		False √		
	7) Ejection fraction EF of <18% is probably going to	excl	ude the patient from m	eanin	gful exercise
•	True √		• False		
	8) Pharmacist one of the main cardiac rehabilitatio	n sta	off members		
•	-,				
	True		 False √ 		
	True 9) Murmurs are sounds occur during only systole		False √		
	9) Murmurs are sounds occur during only systole				
•	9) Murmurs are sounds occur during only systole True		• False √		
•	9) Murmurs are sounds occur during only systole		• False √		

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•	11) Terminal branches of right and left bundle called bundle of His True False ✓	
	12) AV node is aback up pacemaker with intrinsic rate of 20-40bpm	
•	True √ • False	
	13) The percentage of the end- systolic volume that is pumped from the ventricles is called ejection fraction	on
•	True • False √	
	14) The heart located specifically in the middle mediastinum	
•	True √ • False	
	15) Atrioventricular (AV) node located in the right atrium along the lower part of the inter-atrial septum	
•	True √ • False	
	16) During ventricular relaxation stage of cardiac cycle all valves are closed and filling of atria ##	
•	True √ • False	
	17) In cool down exercises an older patients takes shorter time to make changes of blood pressure	
•	True • False √	
	18) A full – level of exercise tolerance test (ETT) can be performed in preparation for phase II rehabilitatio	n
•	True • False √	
	19) In resistance training of cardiac patients exercises at intensity of 40 to 50 of one repetition maximum	foı
	lower body	
•	True √ • False	
	20) An increase in peripheral resistance tends to decrease arterial blood pressure	
•	True • False ✓	
	21) Warm-up exercises allow adequate time for patients' coronary arteries to dilate and increase the	
	possibility of an angina attack	
•	True • False ✓	
	22) Left circumflex artery originate from right coronary artery	
•	True • False ✓	
	23) The amount of blood pumped per beat depends on the number of contractions per minute	
•	True • False ✓	
	24) End systolic volume is also referred to as preload	
•	True • False ✓	
	25) Tricuspid valve composed of three components (annulus, cusps, and commissures)	
•	True • False ✓	